

# Lester Li

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## EDUCATION

**Georgia Institute of Technology, Atlanta, GA**

May, 2013

- **Doctorate of Science in Chemical Engineering**
- **Minor in Paper Science and Engineering**

**Worcester Polytechnic Institute, Worcester, MA**

May, 2009

- **Bachelor of Science in Chemical Engineering, Minor in Material Science**
- GPA 3.67/4.0

## PROJECTS

**Graduate Thesis** Atlanta, GA

August 2009-May 2013

**Control of Fluids on Plasma Modified Paper**

- Use of vacuum plasma system to modify paper through etching and deposition
- Studying superhydrophobic and superoleophobic paper
- Fabricate biomedical devices on superhydrophobic paper
- Application of superhydrophobicity to other surfaces

**Major Qualifying Project (MQP)** Worcester MA

August 2008-May 2009

**Palladium Membranes for Hydrogen Purification**

- Research the use of dense palladium membranes for use in methane steam reformation
- Use electroless plating and vacuum plating techniques to achieve dense membranes
- Produce a membrane that allows a high amount of hydrogen to flow through, while still having a long life span

**Junior Interactive Qualifying Project (IQP)** Venice, Italy

October 2007-December 2007

**Venetian Boat Traffic and Its Environmental Impacts**

- Led an interdisciplinary member team, to develop and analyze the relationship between traffic and its environmental impacts
- Worked with COSES and Red Fish Organization to model Venetian traffic
- Used collected data along with preexisting data to develop a more accurate model

## WORK EXPERIENCE

**R&D Co-op**, 3M, CUNO Inc, Meriden CT

January 2009-March 2009

- Develop testing procedures for percent reduction of pharmaceutical drugs in water
- Develop standards for reverse osmosis filters and systems
- Design and adjust process systems to fit customer specifications
- Research and model filtration systems depending on usage

**Process Intern**, Technic Engineered Powders, Woonsocket RI

May 2008-August 2008

- Worked on all 3 aspects of production
  - carried out pre-production standardization of solutions and chemicals
  - produced over 10 types of metallic powder products, all with varying specifications
  - worked to streamline post production phases of precious metal powder production
- Researched and applied solutions to 2 processes and suggested further modifications

## EQUIPMENT EXPERIENCE

- Experience working with high vacuum systems, SEM, EDX and XPS

## COMPUTER SKILLS

Microsoft Access, Microsoft Word, Microsoft Excel, PowerPoint, Visio, Mathcad, Aspen, COMSOL